

Claims Text - CLTX (5):

5. An apparatus capture apparatus operable in a first image capture mode and a second image capture mode, the apparatus comprising: an image capture unit that captures a moving image as image data; a compression unit that compresses the image data of the moving image; a controller that controls a resolution and a compression ratio of the image data of the moving image in accordance with the first image capture mode or the second image capture mode, wherein, when the apparatus is operable in the first image capture mode, the controller sets a lower resolution and a higher compression ratio than the second image capture mode, and wherein, when the apparatus is operable in the second image capture mode, the controller sets a higher resolution and a lower compression ratio than the first image capture mode.

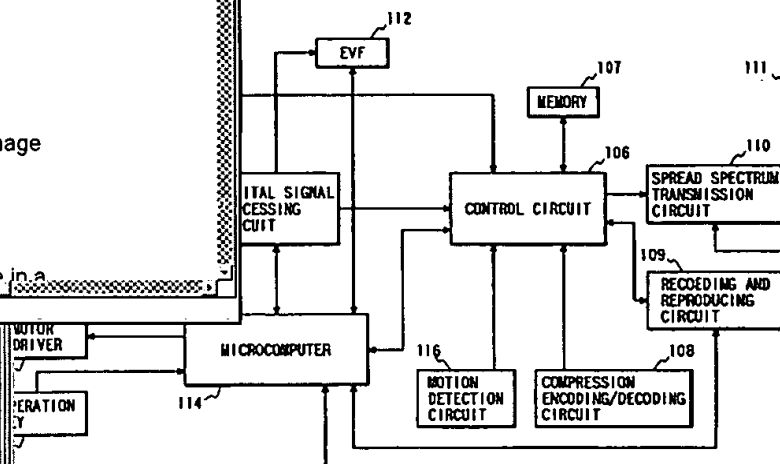
Claims Text - CLTX (8):

8. An apparatus according to claim 5, further comprising a display unit that displays at least one of a resolution and a compression ratio of the image data of moving image controlled by the controller.

Claims Text - CLTX (13):

13. An image capture method for an image capture apparatus operable in a

FIG. 1



	U	1	Document ID	Issue Date	
32			US 20020099770 A1	20020725	Hybrid co method
33			US 6654498 B2	20031125	Image ca modes ha ratio
34			US 20020105506 A1	20020808	Image dis

TITLE: Method of and control circuit for compression recording and reproducing of multiple images

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Detailed Description Text - DETX (7):

The optimum compression ratio (n:1) to be used by the control part 104 is determined in accordance with such factors as the number of active video cameras, the number of video tape recorders, the type of image taken by the video cameras (e.g., still picture, moving picture), and other factors that are well known in the art. For example, in the case where the image requires high resolution because of its detailed nature, the compression ratio is low. On the other hand, where the image is a still picture or a simple moving picture, the ratio is high. The ratio (n:1) represents the number of image fields that are to be recorded as one image field of data. The higher the compression ratio, the lower the resolution of the image. ■

Patent (19)

Patent Number: 5,615,017

Date of Patent: Mar. 25, 1997

CONTROL CIRCUIT FOR
CORDING AND
MULTIPLE IMAGES

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FOREIGN PATENT DOCUMENTS

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3104123 12/1982 Germany 5604 576

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(57)

ABSTRACT

A control circuit for controlling the compression of image signals for recording and for controlling the expansion of compressed image signals for reproduction. Includes a recording signal processing circuit which receives a plurality of image signals produced by a plurality of image sources, such as a plurality of video cameras, and a reproducing signal processing circuit, in which a compressed image signal is subjected to an expansion and then a recording process. In the recording signal processing circuit, respective ones of the plurality of image signals are, in turn, subjected to a compression process that reduces the length of the original image signal. The image signal thus compressed is then output to at least one video tape recorder for recording. In the reproducing signal processing circuit, the compressed image signal is expanded to its original length and any errors found therein are corrected. The expanded and corrected image signal then corresponds to one of the original images taken by a selected one of the image sources. The image signal is suitable for display on a output device such as a monitor. A method for compressing sequentially selected video signals prior to recording on a video tape recorder and subsequent expansion and viewing is also described.

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Detailed Description Text - DETX (58):

If the channel is identified as being in state 4 which corresponds to being of very good quality in the process of FIG. 5, as indicated at 514, the process continues as shown in the flow diagram of FIG. 9. At step 902, a decision is made as to whether to vary the transmit power. If the power can be varied, the process branches to connector 903 and to the process shown in the flow diagram of FIG. 10, which is described below. If the power can not be varied, a decision is then made at step 904 as to whether the baud rate may be increased. If the baud rate can not be increased, then this portion of the process is done as indicated at step 918. If the baud rate can be increased, then a further decision is made as to whether the delivery rate can be increased at step 906. If the delivery rate can not be increased, then a decision is made as to whether the compression ratio can be decreased as indicated at step 907. If the compression ratio can not be decreased, the number of bits per second is increased by 3 dB as indicated at step 909 and the process is complete as indicated at step 918. If the compression ratio can be decreased, then it is decreased and a higher resolution image is transmitted as indicated at step 910 and the process is complete at step 918.

Nov. 28, 2000

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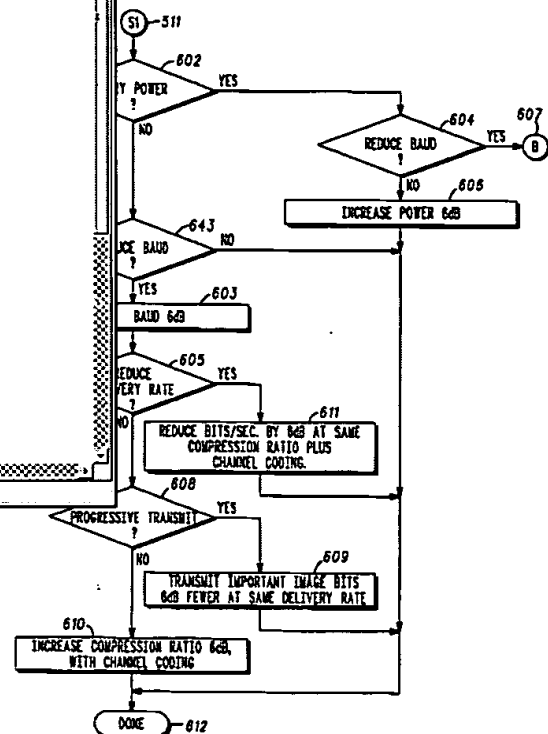


FIG. 6

	U	1	Document ID	Issue Date	
1			US 6421467 B1	20020716	Adaptive
2			US 6154489 A	20001128	Adaptive
3			US 20020009000 A1	20020124	Adding in- cause sig

DOCUMENT-IDENTIFIER: US 20020135683 A1

TITLE: Digital still camera system and method

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Detail Description Paragraph - DETX (23):

[0055] (4) Burst capture mode has data flow as illustrated in FIG. 5, and FIG. 6 shows offline data processing. ARM 130 sets CCD 150 into fine resolution mode. ARM sets up the burst compression parameters, burst length, number of frames/second, compression ratio (lossy, lossless), etc. ARM enables burst compression engine 108 to write the raw CCD data to SDRAM 160. ARM signals DSP to process each of the stored raw CCD images in the burst. Burst mode decompression engine 108 decompresses each of the burst captured images. DSP processes each of the images as in normal capture and writes the JPEG bitstream to SDRAM 160.



US 20020135683A1

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Publication Publication (1) Pub. No.: US 2002/0135683 A1

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CAMERA SYSTEM AND

Related U.S. Application Data

(50) Provisional application No. 60/172,780, filed on Dec. 20, 1999. Provisional application No. 60/174,271, filed on Jan. 14, 2000. Provisional application No. 60/177,431, filed on Jan. 21, 2000. Provisional application No. 60/214,951, filed on Jan. 29, 2000. Provisional application No. 60/215,000, filed on Jan. 29, 2000.

Publication Classification

Int. Cl.⁷ H04N 5/23; H04N 5/232
U.S. Cl. 348/222; 348/302; 348/223;
348/346

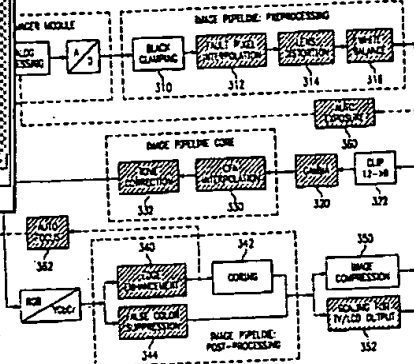
(51)

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ABSTRACT

A non-scaling in a digital image with pixel intensities replaced by a linear combination of pixel intensities and cumulative intensity distribution values.



	U	1	Document ID	Issue Date	
14			US 20030222998 A1	20031204	Digital stil
15			US 20020135683 A1	20020926	Digital stil
16			US 20020041761 A1	20020411	Digital stil

TITLE: System for managing tiled images using multiple resolutions

KWIC

Detailed Description Text - DETX (271):

FIG. 34 illustrates a process for creating compressed low resolution tiles from compressed higher resolution tiles. The tile manager 192 starts at start state 1250 and proceeds to state 1252, wherein the system enters a loop which is followed by the system for each of the four high resolution tiles required to produce a single low resolution tile. More specifically, at state 1252 the tile manager 192 locks the compressed version of the high resolution tile. The system then proceeds to state 1256, wherein the tile manager 192 determines whether an error occurred at state 1254. In the event that an error occurred, the tile manager proceeds to end state 1258 and terminates. If no error occurred, the tile manager 192 returns to state 1252 and continues the loop described above for each of the four high resolution tiles.

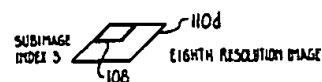
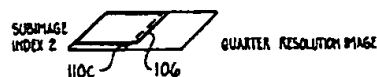
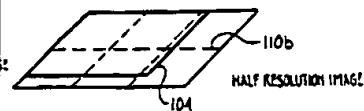
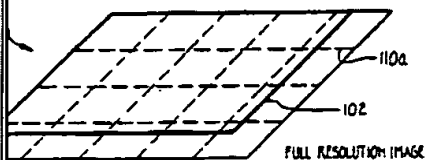
Mar. 16, 1999

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Re. 36,145

Image Stack

Fig. 1



	U	1	Document ID	Issue Date	
4			US 20020097430 A1	20020725	System a compress
5			US RE36145 E	19990316	System for
6			US 5263136 A	19931116	System for

DERWENT-WEEK: 199951

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TITLE: Electronic camera with continuous frame function - has image processor which automatically changes compression rate to high resolution side, when low resolution mode is switched, otherwise, changes set-up of compression rate to low resolution side

PATENT-ASSIGNEE: NIKON CORP[NIKR]

PRIORITY-DATA: 1998JP-0061013 (March 12, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11261879 A	September 24, 1999	N/A	013	H04N 005/232

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 11261879A	N/A	1998JP-0061013	March 12, 1998

INT. CL. (IPC): H04N005/232, H04N005/235, H04N005/234, H04N005/231

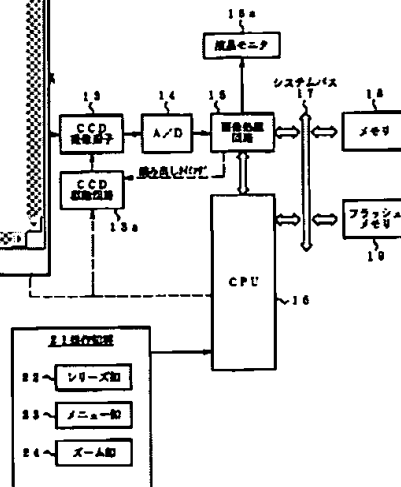
Details Text Image HTML FULL

	U	1	Document ID	Issue Date	
1			US 20020126211 A1	20020912	Digital ca
2			JP 11261879 A	19990924	Electronic process resolution changes
3			US 20040037472 A1	20040226	System a compress

メラでは、撮写速
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ック図である、
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13 a CCD駆動回路
14 A/D変換回路
15 画像処理回路
15 a 液晶モニタ
16 CPU
17 システムバス
18 メモリ
19 フラッシュメモリカード
21 操作 keypad
22 リリースボタン
23 メニューボタン
24 ズームボタン

【図1】



EA51 [247525.wsp:1]

File View Edit Tools Window Help

(128) 348/220.1.ccls.
(35346) resolution and compress\$4
(28) 348/220.1.ccls. and (resolution and compress\$4)
(14) (348/220.1.ccls. and (resolution and compress\$4)) and continu\$4
(91) (high near3 compress\$4) same (low near3 resolution)
(1110) ((electronic or digital) near2 camera) and (continu\$ with (shoot\$3 or shot or photograph\$3))
(0) ((high near3 compress\$4) same (low near3 resolution)) and (((electronic or digital) near2...
(40) ((high near3 compress\$4) same (low near3 resolution)) and continu\$4
(2) ("6323899").PN.
(5) ("4758883" | "5016107" | "5034804" | "5153730" | "5764286").PN.
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(8) ("4819059" | "4876590" | "5226114" | "5440343" | "5452017" | "5493335" | "5828406" | "592...
(2) ("5018017").PN.
(2) ("5016107").PN.
(735) ((fast\$2 or reduc\$) with time) same (low near2 (resolution or quality))
(34) (((fast\$2 or reduc\$) with time) same (low near2 (resolution or quality))) same compress\$3
(5) ("5287420" | "5677689" | "5835034" | "5844508" | "5883589").PN.
(6) ("5164831" or ("5016107" or ("5412427"))).PN.
(4165) compress\$3 with resolution
(506) (compress\$3 with resolution) same low same high
(57) ((compress\$3 with resolution) same low same high) and (electronic or digital) near2 camera
(1) (((compress\$3 with resolution) same low same high) and (electronic or digital) near2 came...

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